Application No. 10/629,756

Amendment dated March 2, 2006

After Final Office Action of December 2, 2005

AMENDMENTS TO THE CLAIMS

1. (Original) A conductive urethane composition comprising polyurethane

obtained by a poly-addition reaction of polyol and polyisocyanate, wherein polyether

polyol is used as said polyol; and an average value of a non-saturation degree of said

polyether polyol is set to not more than 0.025 milliequivalents/g.

2. (Original) The conductive urethane composition according to claim 1, having a

compression set not more than 15% when said compression set is measured at 70°C

for 24 hours in a permanent set testing methods for rubber, vulcanized or thermoplastic

specified in JIS K6262; a volume resistivity less than 10^{9.0} (Ω·cm) when said volume

resistivity is measured at an applied voltage of 500V in a method specified in JIS

K6911; and a hardness not more than 55 degrees when said hardness is measured in

accordance with a durometer hardness test type A specified in JIS K-6253.

3. (Currently Amended) The conductive urethane composition according to claim

1, containing an organic ionic-conductive agent other than chlorine or bromine

containing ammonium salts to set [[said]] a volume resistivity of said conductive

urethane composition to not more than $10^{8.0}$ ($\Omega \cdot \text{cm}$).

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4. (Original) The conductive urethane composition according to claim 3, wherein

organometallic salts having fluoro groups and/or sulfonyl groups is contained as said

organic ionic-conductive agent.

5. (Original) The conductive urethane composition according to claim 4, wherein

metal salts of bis(fluoroalkyl-sulfonyl)imide and/or metal salts of fluoroalkyl sulfonic acid

is contained as said organometallic salts having said fluoro groups and/or said sulfonyl

groups.

6. (Previously Presented) The conductive urethane composition according to

claim 4, wherein not less than 0.5 mol% of said organometallic salt is single-ionized.

7. (Previously Presented) The conductive urethane composition according to

claim 1, wherein said polyether polyol contains ethylene oxide and/or propylene oxide at

not less than 50 wt% of ethylene oxide and/or propylene oxide units present in the

polyether polyol.

8. (Currently Amended) The conductive urethane composition according to claim

1, wherein said polyether polyol comprises not less than 50 wt% polypropylene glycol

as a main component.

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9. (Original) The conductive urethane composition according to claim 3, wherein

not less than 0.01 parts by weight of said organic ionic-conductive agent nor more than

5.0 parts by weight thereof is used for 100 parts by weight of said polyol.

10. (Original) A conductive roller manufactured by preparing a cylindrical body

composed of the conductive urethane composition according to claim 1 and by

mounting a metal shaft on said cylindrical body.

11. (Original) The conductive roller according to claim 10, wherein a peripheral

surface of said metal shaft is treated with plasma, and said peripheral surface of said

metal shaft and an inner peripheral surface of said cylindrical body are bonded to each

other.

12. (Original) The conductive roller, according to claim 10, that is used as a

charging roller for uniformly charging a photosensitive drum of an electrophotographic

apparatus.

13. (Original) The conductive roller, according to claim 10, that is used as a

developing roller for attaching toner to a photosensitive member of an

electrophotographic apparatus.

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14. (Previously Presented) The conductive roller, according to claim 10, that is

used as a transfer roller for transferring a toner image from a photosensitive member of

an electrophotographic apparatus to paper or to an intermediate transfer belt.

15. (Previously Presented) The conductive urethane composition according to

claim 1, wherein the non-saturation degree of said polyether polyol is not more than

0.015 milliequivalents/g.

16. (Previously Presented) The conductive urethane composition according to

claim 1, wherein the non-saturation degree of said polyether polyol is not more than

0.010 milliequivalents/g.

17. (Previously Presented) The conductive urethane composition according to

claim 1, wherein the composition contains an ionic-conductive agent selected from the

group consisting of LiCF₃SO₃, LiN(SO₂CF₃)₂, LiC(SO₂CF₃)₃, LiCH(SO₂CF₃)₂,

LiSF₅CF₂SO₃, and Li[(OCH(CF₃)₂)₆Nb].

18. (New) A conductive urethane composition comprising:

polyurethane obtained by a poly-addition reaction of polyol and polyisocyanate:

and

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an organic ionic-conductive agent other than chlorine or bromine containing

ammonium salts, wherein

polyether polyol is used as said polyol; and an average value of a non-saturation

degree of said polyether polyol is set to not more than 0.025 milliequivalents/g, and the

composition has a compression set not more than 15% when said compression set is

measured at 70°C for 24 hours in a permanent set testing methods for rubber,

vulcanized or thermoplastic specified in JIS K6262; a volume resistivity less than 108.0

 $(\Omega \cdot cm)$ when said volume resistivity is measured at an applied voltage of 500V in a

method specified in JIS K6911; and a hardness not more than 55 degrees when said

hardness is measured in accordance with a durometer hardness test type A specified in

JIS K-6253.

19. (New) A conductive urethane composition comprising:

polyurethane obtained by a poly-addition reaction of polyol and polyisocyanate;

and

an organic ionic-conductive agent other than chlorine or bromine containing

ammonium salts to set a volume resistivity of said conductive urethane composition to

not more than $10^{8.0}$ (Ω ·cm), wherein

polyether polyol is used as said polyol; and an average value of a non-saturation

degree of said polyether polyol is set to not more than 0.025 milliequivalents/g, and the

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organic ionic-conductive agent comprises metal salts of bis(fluoroalkyl-sulfonyl)imide and/or metal salts of fluoroalkyl sulfonic acid.